CLAIMS

We claim:

- 1. A medical infusion system comprising a lineset having a first end capable of attachment to a reservoir and a second end capable of attachment to another component, a durable pump component for engaging the lineset and controlling a fluid flow through the lineset, and a power supply affixed to other than the durable pump component and capable of operative connection with the durable pump component.
- 2. The medical infusion system of Claim 1, wherein the power supply is affixed to the lineset.
- 3. The medical infusion system of Claim 2, wherein the lineset and power supply are disposable.
- 4. The medical infusion system of Claim 1, further comprising an auxiliary component attached to the lineset selected from the group consisting of a valve, a flow sensor, a pump, a pressure sensor, a feedback control input, a biological status sensor, other closed-loop type sensors, and any combination of such components.
- 5. The medical infusion system of Claim 4, wherein the power supply is affixed to the auxiliary component.
- 6. The medical infusion system of Claim 1, wherein the power supply comprises a fuel cell.
- 7. The medical infusion system of Claim 1, wherein the power supply comprises means suitable for input of AC power.
- 8. The medical infusion system of Claim 1, wherein the power supply comprises a battery.
- 9. The medical infusion system of Claim 8, wherein the battery comprises a flexible thin layer open electrochemical cell.
- 10. The medical infusion system of Claim 1, wherein the power supply is configured to be activated to provide electric power by an activating member.
- 11. The medical infusion system of Claim 10, wherein the activating member is a component of the durable pump which operably connects to the power supply.
- 12. The medical infusion system of Claim 6, wherein the fuel cell comprises a reactant source and a barrier separating the reactant source from a reaction chamber.
- 13. The medical infusion system of Claim 12, wherein the barrier is selected from the group consisting of a frangible membrane, a tear seal, and any combination of the two.

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- 14. The medical infusion system of Claim 6, wherein the fuel cell is a low temperature fuel cell.
- 15. The medical infusion system of Claim 1, wherein the power supply is integral to a surface of the lineset.
- 16. The medical infusion system of Claim 1, wherein the power supply is configured to fit within the durable pump component.
 - 17. The medical infusion system of Claim 1, further comprising a recharger for recharging the power supply.
 - 18. The medical infusion system of Claim 17, wherein the recharger comprises a fuel cell.
 - 19. A medical lineset comprising: tubing having first and second ends attachable to at least a first and second medical component;

a power supply attached to the tubing; and an activating member for placing the power supply into operative connection with an electric component.

- 20. The medical lineset of Claim 19, wherein the activating member is a connector of the electric component.
- 21. The medical lineset of Claim 19, wherein the power supply comprises a fuel cell.
- 22. The medical lineset of Claim 21, wherein the fuel cell comprises a reactant source and a barrier separating the reactant source from a reaction chamber.
- 23. The medical lineset of Claim 22, wherein the barrier is selected from the group consisting of a frangible membrane, a tear seal, and any combination of the two.
- 24. The medical lineset of Claim 21, wherein the fuel cell is a low temperature fuel cell.
- 25. The medical lineset of Claim 19, wherein the power supply is integral to a surface of the tubing.
- 26. The medical lineset of Claim 25, wherein the power supply comprises a low temperature fuel cell.
- 27. The medical lineset of Claim 20, wherein the fuel cell is configured to fit within the electric component.
- 28. The medical lineset of Claim 22, wherein the barrier is configured to be defeated by a mechanism of the electric component.

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- 29. The medical lineset of Claim 27, wherein the fuel cell comprises a reactant source and a barrier separating the reactant source from a reaction chamber, the barrier being configured to be defeated by a mechanism within the fluid pump.
- 30. A method of powering a fluid pump comprising the steps of: providing tubing with an attached power supply; operably connecting the power supply to the fluid pump; and activating the power supply to provide electrical power to the fluid pump.
- 31. The method of Claim 30, wherein the power supply comprises a fuel cell and the step of activating the power supply comprises the step of providing a suitable reactant to a reaction chamber of the fuel cell to cause a chemical reaction.
- 32. The method of Claim 31, wherein the step of providing a suitable reactant comprises the step of defeating a barrier separating the reactant from the reaction chamber within the fuel cell.
- 33. The method of Claim 32, wherein the step of defeating a barrier comprises the step of removing a tear seal.
- 34. The method of Claim 32, wherein the step of defeating a barrier comprises the step of breaking a frangible membrane.
- 35. The method of Claim 32, wherein the barrier is selected from the group consisting of a frangible membrane, a tear seal, and any combination of the two.
- 36. The method of Claim 30, wherein the step of operably connecting the power supply comprises inserting the power supply into the fluid pump.
- 37. The method of Claim 31, wherein the fuel cell is a low temperature fuel cell.
- 38. The method of Claim 30, wherein the tubing is a medical tubing and the power supply is integral to an outer surface of the medical tubing.
- 39. A method for delivering fluid through a lineset comprising the steps of:
 providing an infusion system comprising a fluid pump and tubing having a first end in
 fluid communication with a fluid source and a second end in fluid communication with a
 delivery device;
 - providing a power supply affixed to a component of the infusion system other than the fluid pump;
 - operably connecting the power supply to the fluid pump; activating the power supply to provide power to the fluid pump; and

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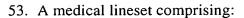
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pumping fluid through the tubing from the fluid source toward the second end of the tubing.

- 40. The method of Claim 39, wherein the power supply comprises a fuel cell and the step of activating the power supply comprises the step of providing a suitable reactant to a reaction chamber of the fuel cell to cause a chemical reaction.
- 41. The method of Claim 40, wherein the step of providing a suitable reactant comprises the step of removing a barrier separating the suitable reactant from the reaction chamber.
- 42. The method of Claim 41, wherein the barrier is selected from the group consisting of a frangible membrane, a tear seal, and any combination of the two.
- 43. The method of Claim 39, wherein the power supply is attached to the tubing.
- 44. The method of Claim 43, wherein the power supply is integral to an outer surface of the tubing.
- 45. The method of Claim 39, wherein the step of operably connecting the power supply comprises placing the fuel cell into the fluid pump.
- 46. The method of Claim 40, wherein the fuel cell is a low temperature fuel cell.
- 47. A medical infusion system comprising a lineset having a means for attaching a first end to a reservoir and means for attaching a second end to another component, a means for engaging a durable pump to the lineset and means for controlling a fluid flow through the lineset, and a means for operatively connecting a means for supplying power, affixed to other than the durable pump, to the durable pump.
- 48. The medical infusion system of Claim 47, wherein the means for supplying power is affixed to the lineset.
- 49. The medical infusion system of Claim 48, wherein the lineset and means for supplying power are disposable.
- 50. The medical infusion system of Claim 47, further comprising an auxiliary component attached to the lineset selected from the group consisting of a valve, a flow sensor, a pump, a pressure sensor, a feedback control input, a biological status sensor, other closed-loop type sensors, and any combination of such components.
- 51. The medical infusion system of Claim 50, wherein the means for supplying power is affixed to the auxiliary component.
- 52. The medical infusion system of Claim 1, wherein the means for supplying power comprises a fuel cell.

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tubing having a first end, a second end, and means for attaching each end to at least a first and second medical component;

means for supplying power attached to the tubing; and

means for activating the means for supplying power into operative connection with an electric component.

- 54. The medical lineset of Claim 53, wherein the means for activating comprises a connector of the electric component.
- 55. The medical lineset of Claim 53, wherein means for supplying power comprises a fuel cell.
- 56. The medical lineset of Claim 55, wherein the fuel cell comprises a reactant source and a means for separating the reactant source from a reaction chamber.
- 57. The medical lineset of Claim 56, wherein the means for separating is a barrier selected from the group consisting of a frangible membrane, a tear seal, and any combination of the two.
- 58. The medical lineset of Claim 55, wherein the fuel cell is a low temperature fuel cell.